

Assessment of Inertial Confinement Fusion Targets



In the fall of 2010, the Office of the U.S. Department of Energys (DOEs) Secretary for Science asked for a National Research Council (NRC) committee to investigate the prospects for generating power using inertial confinement fusion (ICF) concepts, acknowledging that a key test of viability for this concept-ignition -could be demonstrated at the National Ignition Facility (NIF) at Lawrence Livermore National Laboratory (LLNL) in the relatively near term. The committee was asked to provide an unclassified report. However, DOE indicated that to fully assess this topic, the committees deliberations would have to be informed by the results of some classified experiments and information, particularly in the area of ICF targets and nonproliferation. Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed information. The panel was charged with advising the Committee on the Prospects for Inertial Confinement Fusion Energy Systems on these issues, both by internal discussion and by this unclassified report. A Panel on Fusion Target Physics (the panel) will serve as a technical resource to the Committee on Inertial Confinement Energy Systems (the Committee) and will prepare a report that describes the R&D challenges to providing suitable targets, on the basis of parameters established and provided to the Panel by the Committee. The Panel on Fusion Target Physics will prepare a report that will assess the current performance of fusion targets associated with various ICF concepts in order to understand: 1. The spectrum output; 2. The illumination geometry; 3. The high-gain geometry; and 4. The robustness of the target design. The panel addressed the potential impacts of the use and development of current concepts for Inertial Fusion Energy on the proliferation of nuclear weapons

information and technology, as appropriate. The Panel examined technology options, but does not provide recommendations specific to any currently operating or proposed ICF facility.

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Opening Hours: Mon, Tues, Thurs 10.00am – 4pm Wed: 1pm – 4pm, and Fri 10.00am – 3.30pm Contact Details: Telephone: 01792 455105 Freephone: 0800521448 BEATS will: work with 16 – 21 year olds to help access training, employment or work experience. help young people access courses, or volunteering opportunities. give practical support with [...]

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INDEPENDENT LIVING SKILLS

Lots of the topics covered in this website are part of independent living skills and you may be surprised by how much is involved in looking after yourself. You don't have to be completely on your own and if you are finding things difficult you should always have someone to turn to for help. This does not [...]

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USEFUL DOCUMENTS

There are a number of documents that you will need to have as you live more independently. BIRTH CERTIFICATE You need your birth certificate as proof of identity and you will need it to get other documents such as a passport. Social Services may have a copy of your birth certificate that they are [...]

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HEALTH

It is your social worker or young personal advisor's job to make sure you are registered with a doctor (also called GP) and a dentist. It is important not to leave registering with a GP until you need medical help. Keep the contact details for your doctor and out of hours contact number safe. DENTIST [...]

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HOUSING

This is perhaps one of the biggest things you have to sort out as you leave care and this is why there is lots of help and support available for you. The options available in your area may affect your choice of when you want to leave care. Unfortunately quite a large number of care [...]

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EDUCATION

SCHOOL You should already have a designated person in school who is there to help and support you. This could be a teacher or another person in the school. They are responsible for writing your Personal Educational Plan (PEP) and making sure everything happens. Your educational plan should help you to do the best [...]

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SOCIAL SERVICES AND PATHWAY PLAN

While you have been looked after you will have known some people whose job it is to help and support you. All young people in care have a social worker. It is a good idea to keep their details readily available just in case you need to contact them. You may also want to note the [...]

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RIGHTS, ENTITLEMENTS AND ADVOCACY

A right is a something that you can expect to receive. You don't have to earn it or win it. The rights and entitlements listed below are things that the government has committed to provide for you as a care leaver. This might be because there is an Act of Parliament or because they have [...]

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CATEGORIES

BAYS Leaving Care Service

Benefits Bus Stop

Education

Health

Housing

Independant Living Skills

Rights, Entitlements and Advocacy

Social Services and Pathway Plan

Useful Documents

LANGUAGES

en English

Swansea Leaving Care Practical information for individuals leaving care WordPress

[\[PDF\] Motor Vehicle Materials Technology \(Report \(from Daimler-Benz AG\)\)](#)

[\[PDF\] Sam 2000: Proceedings of the 2000 IEEE Sensor Array and Multichannel Signal Processing Workshop 16-17](#)

[March 2000 Cambridge, Massachusetts USA](#)

[\[PDF\] MEANS Costworks 2008](#)

[\[PDF\] Shakespeares Stage Traffic: Imitation, Borrowing and Competition in Renaissance Theatre](#)

[\[PDF\] Chloride ingress into reinforced concrete sustaining in-service loads: A study trying to relate chloride diffusion coefficient to stresses or bending moments in concrete subjected to loads](#)

[\[PDF\] 1996 IEEE International Symposium on Intelligent Vehicles](#)

[\[PDF\] El pequeño libro del haiku \(Spanish Edition\)](#)

Appendix H: Summary from the Report of the Panel on the Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Assessment of Inertial Confinement Fusion Targets - FIRE pppl** Assessment of Inertial Confinement Fusion Targets (2013) the Committee on the Prospects for Inertial Confinement Fusion Energy Systems on these issues, **1 Introduction Assessment of Inertial Confinement Fusion Targets** Suggested Citation: Appendixes. National Research Council. 2013. Assessment of Inertial Confinement Fusion Targets. Washington, DC: The National **Summary An Assessment of the Prospects for Inertial Fusion** Box P.1 Statement of Task for the Panel on the Assessment of Inertial Confinement Fusion Targets. A Panel on Fusion Target Physics (the panel) will serve as **Front Matter Assessment of Inertial Confinement Fusion Targets** Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Summary Assessment of Inertial Confinement Fusion Targets** **The** Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Project: Assessment of Inertial Confinement Fusion (ICF) Targets** Download a PDF of An Assessment of the Prospects for Inertial Fusion Energy by the Cover Image: Assessment of Inertial Confinement Fusion Targets **An Assessment of the Prospects for Inertial Fusion Energy Prospects for Inertial Confinement Fusion Energy Systems** Suggested Citation: Appendix D: Agendas for Meetings of the Panel on the Assessment of Inertial Confinement Fusion (ICF) Targets. National Research **NAE Website - Assessment of Inertial Confinement Fusion Targets** Panel on the Assessment of Inertial Confinement Fusion (ICF) Targets. Summary. The energy produced by nuclear fusion has the potential to provide a **An Assessment of Inertial Confinement Fusion Target - FIRE pppl** An Assessment of the Prospects for Inertial Fusion Energy and Assessment of Inertial Confinement Fusion Targets were commissioned by the Department of **Appendix D: Agendas for Meetings of the Panel on the Assessment** Assessment of Inertial Confinement Fusion Targets. In fall 2010 the Office of the US Department of Energys Secretary for Science asked that an NRC committee doi: 10.17226/18288. this confinement: (1) magnetic confinement fusion (MCF), in which magnetic fields are used to confine the plasma, and (2) ICF, the topic of the current report, in which a driver delivers energy to the surface of a pellet of fuel, heating and compressing it. **Appendixes Assessment of Inertial Confinement Fusion Targets** 2 assessment of Inertial confinement fusion targets **BACKGROUND** Fusion is the process by which energy is produced in the sun, and, on a more human scale, **Assessment of Inertial Confinement Fusion Targets - The National** Assessment of Inertial Confinement Fusion Targets [National Research Council, Division on Engineering and Physical Sciences, Board on Energy and **Appendix B: Statements of Task An Assessment of the Prospects** Assess the prospects for generating power using inertial confinement fusion Identify scientific and engineering challenges, cost targets, and R&D objectives **4 Evaluation of ICF Targets Assessment of Inertial Confinement** See Overarching Conclusion 1 from the Panel report, Assessment of Inertial Confinement Fusion Targets, released as a prepublication in early 2013. Page 16 **Inertial Confinement Fusion Target Designs - The National** Assessment of Inertial Confinement Fusion Targets (2013). In the fall of 2010, the Office of the U.S. Department of Energys (DOEs) Secretary for Science asked **Appendix C: Panel Membership and Staff for the Panel on the** The statement of task for the separate and supporting study by the Panel on the Assessment of Inertial Confinement Fusion (ICF) Targets is also shown. **Energy Generation** Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Assessment of Inertial Confinement Fusion Targets (2013) The** inertial confinement fusion (ICF) in particular as an energy source. It also provides guidance on the ability to implode a fuel target or capsule to a high enough **1 Introduction An Assessment of the Prospects for Inertial Fusion** The scientific and technological progress in inertial confinement fusion has been for the Panel on the Assessment of Inertial Confinement Fusion (ICF) Targets. **Assessment of Inertial Confinement Fusion Targets Appendix A** Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Assessment of Inertial Confinement Fusion Targets The National** Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed **Assessment of Inertial**

Confinement Fusion Targets - Google Books Result Project Scope. A Panel on Fusion Target Physics (the Panel) will serve as a technical resource to the Committee on Inertial Confinement Energy Systems (the **An Assessment of the Prospects for Inertial Fusion Energy** The Thus, the Panel on the Assessment of Inertial Confinement Fusion Targets (the panel) was assembled, composed of experts able to access the needed